

Pozos Rico

12-4-12

CPCRC

DEC Sampling

M. (Camp) / M. (Camp)

0630 M. Campy & M. Rivera leave Hotel & head to site

710 @ Gas station to pick up ICE.

0725 SIGNING AT GOVIA SHARK

0735 CHECKING BATER ORDER, CALIBRATE EQUIPMENT, Load equipment

0740 AM WEATHER: Mostly sunny, 80°, WINDS S @ 2 mph

DAILY TAILGATE: SLIP TRIP FALL, HEAT, STAY HYDRATED, Biological threats, muddy conditions

P.O.D. Below vison wells. Row-A,

TW-1R (D.R), TW-2, PZ-3R, PZ-2R

YSICAL pH: 4.00 @ 20.00 pH: 7.00 @ 20.48

pH 10 = 10.02 @ 20.11, SPEC COND = 1.43 @ 20.89

ORP = 222.0 @ 20.43, DO = 8.99 mg/L @ 20.73

0930 SETTING UP @ ROW-A, DTW = 7.94

TIME Vol TEMP COND pH DO ORP VIS WL

0955 0 30.04 1.139 6.78 0.51 -127.0 clear 7.98

0958 0.2 30.04 1.136 6.78 0.39 -122.6 clear 7.97

1001 0.4 30.04 1.132 6.78 0.32 -115.3 clear 7.99

1004 0.6 30.06 1.124 6.77 0.24 -124.2 clear 7.99

1007 0.8 30.01 1.121 6.77 0.25 -143.4 clear 7.99

1010 1.0 30.08 1.119 6.77 0.22 -135.4 clear 7.99

1015 collect sample @ ROW-A. Shlick odor

FERROUS IRON = 3.30 mg/L

Pozos Rico

12-4-12

CPCRC

DEC Sampling

MR/MR

1030 SETTING UP @ TW-2 R/Ls, DTW =

TIME Vol TEMP COND pH DO ORP VIS WL

NOTE: WATER LEVEL METER NOT WORKING

BROKEN. WILL ORDER NEW ONE & BORROW CHEMISTS FOR REMAINDER OF DAY & tomorrow

1110 HAVE DON / FURTHER WATER LEVEL METER DTW = 6.56

TIME Vol TEMP COND pH DO ORP VIS WL

1115 0 31.14 0.853 6.59 0.62 -105.1 clear 6.71

1118 0.2 31.09 0.846 6.59 0.34 -107.6 clear 6.72

1121 0.4 31.11 0.839 6.58 0.27 -106.7 clear 6.72

1124 0.6 31.11 0.858 6.58 0.22 -102.4 clear 6.72

1127 0.8 31.14 0.836 6.58 0.21 -105.8 clear 6.72

1130 collect samples @ Dof @ TW-1R. Shlick

odor detected. Ferrous Iron = 3.30 mg/L

1152 SETTING UP @ TW-2, DTW = 7.71

TIME Vol TEMP COND pH DO ORP VIS WL

1204 0 31.47 0.839 7.44 1.01 276 clear 7.75

1207 0.2 31.36 0.859 7.34 0.39 -21.1 clear 7.74

1210 0.4 31.32 0.904 6.95 0.52 -128.7 clear 7.74

1213 0.6 31.26 0.719 6.81 0.26 -118.6 clear 7.74

1216 0.8 31.24 0.922 6.78 0.23 -112.2 clear 7.74

1219 1.0 31.19 0.927 6.76 0.21 -109.6 clear 7.74

1225 COLLECTING SAMPLE @ TW-2. NO ODOR DETECTED

FERROUS IRON =

1240 SETTING UP @ P2-3R DTW = 7.89

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1254	0	30.27	865	6.83	.83	-88.9	clear	7.95
1257	0.25	30.01	889	6.94	.42	-88.4	clear	7.95
1300	0.50	29.94	812	6.94	.32	-83.9	clear	7.95
1303	0.75	30.11	832	6.94	.27	-91.0	clear	7.96
1306	1.00	29.99	849	6.94	.25	-100.5	clear	7.95
1310	COLLECTED SAMPLE AT P2-3R MEDIAN ODOR							
DETECTED FERROUS IRON = 2.84 mg/L								
1335 SETTING UP @ RW-BR, DTW = 6.40								
1347	0	30.28	864	7.12	1.51	-120.3	clear	6.44
1352	0.3	30.16	872	7.03	.40	-114.9	clear	6.46
1355	0.6	30.51	917	6.87	.31	-116.4	clear	6.46
1358	0.9	29.99	946	6.85	.22	-119.0	clear	6.46
1401	1.2	29.79	959	6.85	.19	-109.8	clear	6.46
1404	1.5	30.15	962	6.85	.18	-114.5	clear	6.46
1410	COLLECTED SAMPLE @ RW-BR, SLIGHT							
ODOR DETECTED, FERROUS IRON = 3.30 mg/L								
COLLECTED MS MSD								
1450 DUMPED PULLE WATER								
1505 UNLOAD EQUIPMENT & ORP TANKS								

HEAD OFF SITE TO GET ICE, SIGN OUT

@ GUNDS SACKS RETURN KEYS.

1515 @ GAS STATION TO PACK COOLERS

1550 HEAD TO FEDEX TO D/O COOLERS

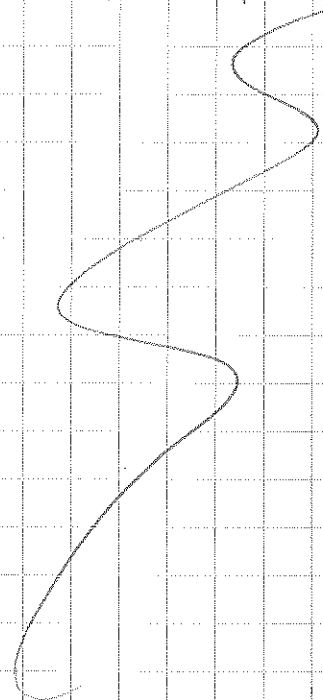
1630 D/O TWO (2) COOLERS @ FEDEX

AIRBILL # 801426262600

1655 @ HOTEL

PM WEATHER: SUNNY 80° WINDS

WC 6 mph



1526	♀	30.97	CH-185	6-15	0.866	101.2	CH-185	6-15
1527	♀	25.0	CH-185	6-15	0.866	101.2	CH-185	6-15

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Location

POUR RIVER

Date 12-5-12

Project / Client

CPCREP

DEC SAMPLING

MR/MR

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1032	1.2	30.39	0.971	6.91	0.20	-118.7	clear	6.02
1035	1.8	30.71	0.961	6.91	0.15	-112.7	clear	6.02
1038	2.4	30.71	0.953	6.91	0.13	-115.4	clear	6.02
1041	3.0	30.71	0.950	6.91	0.11	-113.6	clear	6.02
1043	collecting sample @ TW-3. slight odor detected.							

FERRUS IRON = 3.30 mg/L

1055 SETTING UP @ TW-4 DTW = 5.66

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1103	0	30.66	0.803	7.15	1.26	-13.3	clear	5.71
1106	0.75	30.64	0.807	7.14	0.82	-19.1	clear	5.71
1109	1.5	30.72	0.812	7.07	0.50	-118.8	clear	5.71
1112	2.25	30.77	0.819	7.07	0.45	-131.6	clear	5.71
1115	3.00	30.73	0.823	7.07	0.42	-128.1	clear	5.71

1120 collecting sample @ TW-4. NO ODOUR DETECTED.

FERRUS IRON = 1.45 mg/L

1121 @ RW-T; DTW = 5.10

1140 SETTING UP @ 210 MW-210 DTW = 5.21

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1155	0	30.25	.625	6.84	1.15	-53.9	clear	5.24
1158	0.45	30.17	.628	6.81	.80	-55.6	clear	5.24
1201	0.90	30.04	.630	6.77	.52	-53.2	clear	5.24
1204	1.35	29.90	.632	6.77	.37	-53.6	clear	5.24
1207	1.80	29.87	.631	6.77	.27	-54.0	clear	5.24
1210	2.25	29.90	.630	6.78	.28	-55.7	clear	5.24

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Location

POUR RIVER

Date 12-5-12

Project / Client

CPCREP

DEC SAMPLING

MR/MR

1215 COLLECTING SAMPLE @ MW-210 Slight odor

1240 SETTING UP @ MW-16, DTW = 5.79

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1251	0	31.33	2.603	6.78	1.11	-121.8	clear	5.98
1254	0.6	31.02	2.639	6.78	0.41	-115.4	clear	5.98
1257	1.2	30.96	2.638	6.77	0.33	-111.8	clear	5.98
1300	1.8	30.92	2.638	6.79	0.28	-104.7	clear	5.98
1303	2.4	30.95	2.638	6.79	0.28	-104.7	clear	5.98

1305 collecting sample @ MW-16, NO ODOUR

1338 SETTING UP @ MW-5R, DTW = 4.65

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1350	0	29.15	.954	6.77	0.74	-60.6	clear	4.94
1353	0.75	29.05	.963	6.77	0.50	-60.6	clear	5.51
1356	1.50	29.00	.962	6.76	0.40	-59.9	clear	5.53
1359	2.25	29.00	.951	6.77	0.47	-58.5	clear	5.48

1405 COLLECTING SAMPLE @ MW-5R

1435 DOWNED PUMP WATER

1440 UV IRRADIATION EQUIPMENT

1455 SIGN OUT @ BOARD SHACK RETURN KEYS

HEAD TO GAS STATION TO BUY ICE &amp; PAPER

1545 HEAD TO FED EX TO D/O COOLERS

1640 D/O 3 COOLERS @ FED EX

AIRBILL # 8014 2626 2610

1655 @ HOTEL

12-5-12

Location PUERTO RICODate 12-6-12Project / Client CPCRCDEC SAMPLINGMR/MR

0530 A. RAUPEL &amp; M. RIVERA HEAD TO CPCRC SITE.

0620 @ GAS STATION TO BUY ICE

0630 SIGN IN @ GUARD SHACK &amp; GET KEYS

0635 CALIBRATE &amp; LEAD EQUIPMENT

AM. WINDSPEED 71°, Mostly cloudy with E &amp; S winds

PM. 11:00 AM: 31.4°C, 71°F, V. WINDSPEEDS, HEAT, STRONGLY DRY, BIRCH &amp; CAC. WINDS, SUNSCREEN.

POB - Sample wells: MW-146, MW-27, MW-30D, MW-3R, MW-28, MW-58, MW-59D.

Y. 51°C - pH = 4.00 @ 20.89

pH = 7.00 @ 20.92, pH10 = 10.02 @ 20.89

SPR CONC = 1.413 @ 20.73, ORP = 170 @ 20.53

DO = 9.11 mg/L @ 19.91

0705 SETTING UP @ MW-146 DTW = 5.74

~~TIME Vol TEMP COND pH DO ORP VIS WL~~

TIME Vol TEMP COND pH DO ORP VIS WL

0726 0.7238 1.431 6.98 .24 62.5 clear 5.90

0729 0.6 28.15 1.437 6.99 1.01 49.4 clear 5.92

0732 1.2 28.34 1.438 6.99 0.52 39.5 clear 5.94

0735 1.8 28.48 1.440 6.98 0.43 21.7 clear 5.96

0738 2.4 28.58 1.442 6.98 0.42 11.0 clear 5.96

0745 Collecting Sample @ MW-146

Location PUERTO RICODate 12-6-12Project / Client CPCRCDEC SAMPLINGMR/MR

0808 SETTING UP @ MW-27, DTW = 3.83

~~TIME Vol TEMP COND pH DO ORP VIS WL~~

0821 0.2831 0.845 7.32 1.71 62.9 clear 4.05

0824 0.75 28.50 0.851 7.31 0.70 61.0 clear 4.09

0827 1.50 28.60 0.853 7.31 0.50 54.5 clear 4.11

0830 2.25 28.62 0.854 7.30 0.39 53.8 clear 4.11

0833 3.0 28.66 0.854 7.29 0.31 51.7 clear 4.11

0836 3.75 28.66 0.854 7.29 0.32 49.5 clear 4.11

0840 Collecting Sample @ MW-27. NOODOR

0900 SETTING UP @ MW-30D DTW = 4.74

TIME Vol TEMP COND pH DO ORP VIS WL

0913 0.2917 .818 6.85 1.27 61.1 clear 4.74

0916 0.6 29.21 .822 6.83 .68 45.1 clear 4.74

0919 1.2 29.27 .821 6.82 .42 37.5 clear 4.74

0922 1.8 29.13 .821 6.81 .37 24.3 clear 4.74

0925 2.4 29.23 .817 6.81 .29 20.0 clear 4.74

0928 3.0 29.22 .815 6.81 .29 17.9 clear 4.74

0935 Collecting Sample @ MW-30D, NOODOR

1003 SETTING UP @ MW-3R, DTW = 4.81

TIME Vol TEMP COND pH DO ORP VIS WL

1016 0.2995 1.284 6.85 1.43 -99.7 clear 4.93

1019 0.6 29.97 1.297 6.83 0.74 -84.6 clear 4.92

1022 1.2 30.06 1.301 6.83 0.63 -86.2 clear 4.92

1025 1.8 30.20 1.306 6.83 0.44 -86.3 clear 4.92

PUERTO RICO

Date 12-6-12

CPCPRC

DEC Sampling

mr/mr

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1028	2.4	30.29	1.309	6.84	0.42	-81.5	clear	4.92
1031	3.0	30.22	1.311	6.84	0.41	-82.7	clear	4.92
1035	Collecting Sample @ MW-3R No odor							
1038	@ WELL MW-31D, DTW=3.09							

1105 SETTING UP @ MW-28, DTW=4.66

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1120	0.6	30.60	1.457	6.86	1.07	-127.3	clear	4.69
1123	0.6	30.64	1.434	6.87	1.07	-126.5	clear	4.69
1126	1.2	30.52	1.437	6.88	0.83	-123.0	clear	4.70
1129	1.3	30.33	1.440	6.88	0.70	-122.8	clear	4.70
1132	2.4	30.47	1.444	6.87	0.55	-116.0	clear	4.70
1135	3.0	30.52	1.450	6.89	0.50	-117.1	clear	4.70
1138	3.6	30.40	1.455	6.89	0.45	-123.2	clear	4.70

1145 Collecting Sample @ MW-28 <sup>MR</sup> DTW=12.69

1215 SETTING UP @ MW-1R DTW=12.09

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1229	0.6	31.31	1.348	6.72	0.67	-127.3	clear	12.75
1232	0.75	31.23	1.349	6.73	0.50	-125.2	clear	12.75
1235	1.65	31.24	1.348	6.73	0.31	-123.1	clear	12.75
1238	2.35	31.29	1.352	6.74	0.23	-115.7	clear	12.76
1241	3.0	31.27	1.360	6.74	0.23	-112.2	clear	12.75

1245 Collecting Sample @ MW-1R

NOTE: LATE ENTRY 1150 @ RW-1; S. 04

1153 @ NEWELL-2 4.86

PUERTO RICO

Date 12-6-12

CPCPRC

DEC Sampling

mr/mr

1310	SETTING UP @ MW-104, DTW=14.31							
TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1322	0	29.67	0.966	6.73	1.22	-110.5	clear	14.44
1325	0.6	29.38	0.963	6.72	0.43	-110.7	clear	14.44
1328	1.2	29.34	0.963	6.73	0.35	-110.8	clear	14.44
1331	1.2	29.24	0.966	6.74	0.35	-108.2	clear	14.44
1334	2.4	29.27	0.968	6.75	0.31	-102.2	clear	14.44
1340	Collecting Sample @ MW-104. Slight odor							
1430	Dump portable water. Finished w/							

## FIELD ACTIVITIES

1435 @ OPS TRAILER TO V. LEAN 3 &amp; 4 REPAIR

1445 @ GAS STATION TO Buy ICE TO PACK

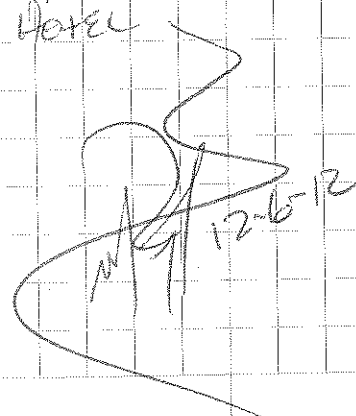
## COOLERS

1550 HEAD TO FED EX TO Dlp COOLERS

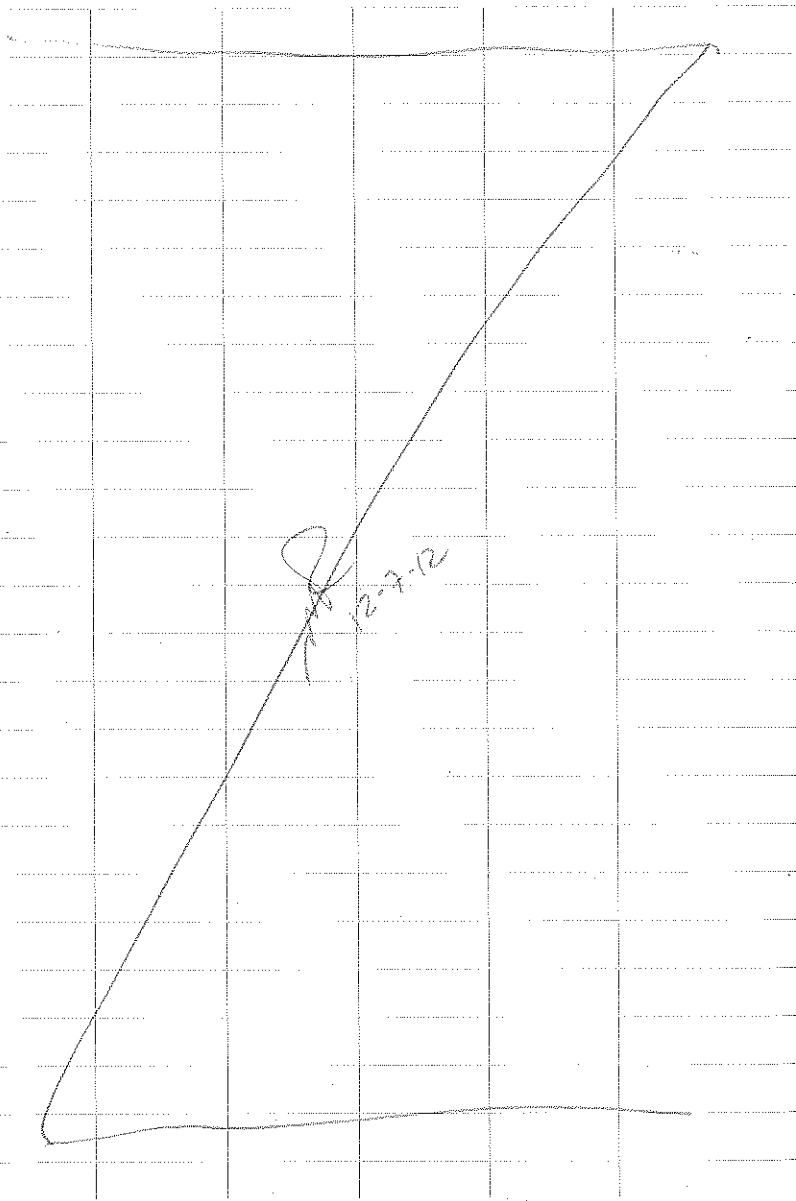
1650 Dlp OF COOLERS @ FED EX.

AIR BILL # 801426262621

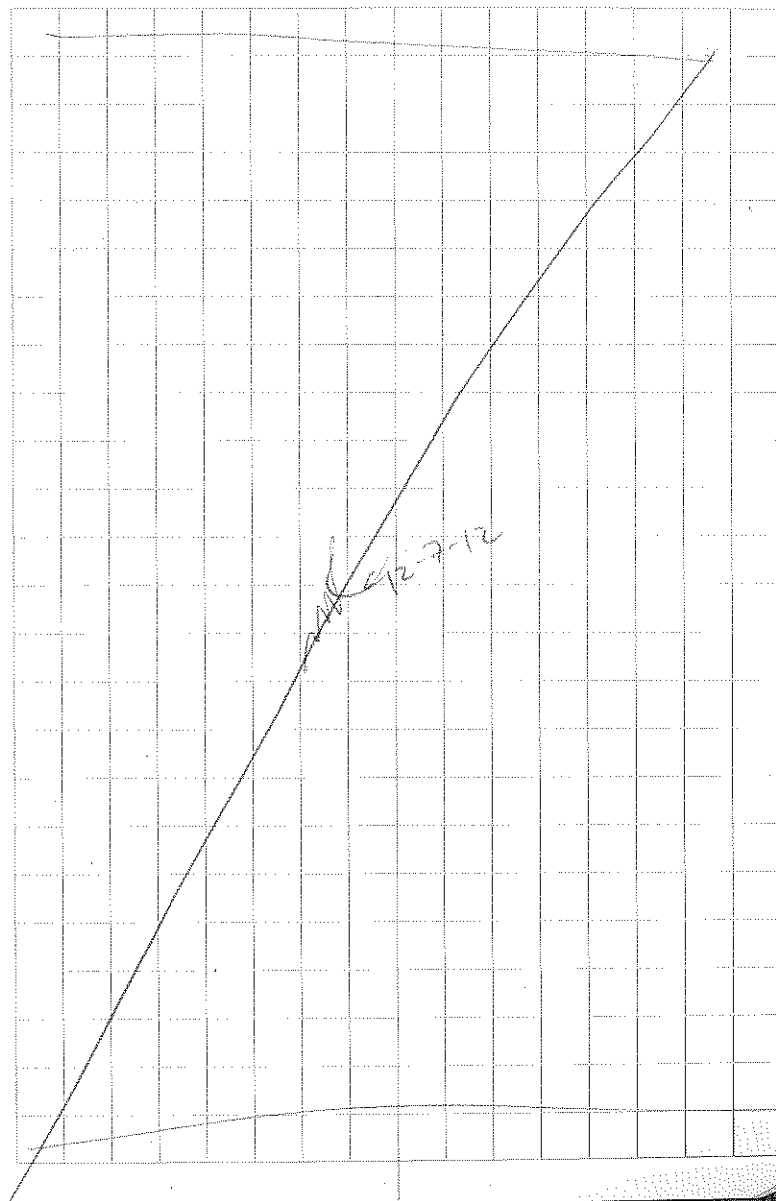
1655 @ HOTEL



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Location POKER RIVER Date 12-7-12Project / Client CFCPRCDEC SAMPLING mt/mt

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Location POKER RIVER Date 12-7-12Project / Client CFCPRCDEC SAMPLING mt/mt

Location Puerto RicoDate 12-7-12Project / Client CPOPECDEC SAMPLINGMR/HR

0535 M. Pampy 8m. RIVERA LEAVE HOTEL FOR SITE.

0615 @ WAS STARTED TO BUY ICE.

0625 SINKING BOARD SHAD 2 EST KEYS.

0635 LOADING &amp; CALIBRATING EQUIPMENT

AIR WEATHER 77°, Mostly CLEAR

WINDS E @ 3 mph

Daily Take - SLATRA TAIL, UNEQ. S. RAKS

HEAT, STAY HYDRATED, SUNSCREEN.

BIOLOGICAL HAZARDS. NOISE, PUSKLE

POD - SAMPLE WELLS: MW-15B, MW-15D

NEWELL-6, MW-24, MW-22B, MW-129D

YSIGAL - pH = 4.00 @ 21.57

pH7 = 7.00 @ 21.29, pH10 = 10.02 @ 21.38

SPEC COND = 1.413 @ 21.56

ORP = 220 @ 20.83, DO = 9.00 mg/L @ 20.51

0712 SETTING UP @ MW-129D; DTW = 4.71

TIME VOL TEMP COND pH DO ORP VIS WL

0727 0 26.04 .966 6.90 1.09 -51.3 clear 4.74

0730 0.45 26.87 .972 6.89 1.09 -56.4 clear 4.74

0733 0.9 27.10 .977 6.80 0.59 -69.7 clear 4.74

0736 1.35 27.37 .982 6.89 8.46 -71.3 clear 4.74

0739 1.8 27.52 .983 6.88 0.40 -73.9 clear 4.74

0742 2.25 27.61 .984 6.88 0.36 -74.0 clear 4.74

0745 COLLECTING SAMPLE @ MW-129D

Location Puerto RicoDate 12-2-12Project / Client CPOPECDEC SAMPLINGMR/HR

0815 SETTING UP @ MW-15B; DTW = 5.95

TIME VOL TEMP COND pH DO ORP VIS WL

0828 0 28.91 0.931 6.99 1.05 -116.3 clear 6.00

0831 0.6 29.26 0.980 6.99 0.81 -120.3 clear 6.00

0834 1.2 29.46 1.024 6.97 0.48 -118.6 clear 6.00

0837 1.8 29.53 1.061 6.97 0.37 -117.7 clear 6.00

0840 2.4 29.58 1.092 6.97 0.31 -133.1 clear 6.00

0843 3.0 29.60 1.047 6.97 0.28 -134.2 clear 6.00

0846 3.6 29.63 1.104 6.97 0.26 -133.7 clear 6.00

0850 COLLECTING SAMPLE @ MW-15B NO CDAR

0910 SETTING UP @ MW-159D, DTW = 6.10

TIME VOL TEMP COND pH DO ORP VIS WL

0920 0 29.86 .874 7.06 .85 -98.2 clear 6.62

0923 0.6 29.75 .885 7.05 .66 -99.1 clear 6.66

0926 1.2 30.08 .880 7.03 .41 -101.5 clear 6.61

0929 1.8 30.13 .875 7.03 .36 -103.8 clear 6.61

0932 2.4 30.12 .869 7.03 .32 -104.6 clear 6.61

0935 COLLECTING SAMPLE @ MW-159D STRENGTH ODR

0938 @ MW-15; DTW = 6.10 POLLOCK, BAKER LID

1008 SETTING UP @ NEWELL-6; DTW = 13.37

TIME VOL TEMP COND pH DO ORP VIS WL

1022 0 29.18 1.010 6.78 1.11 -105.9 clear 13.51

1025 0.45 29.03 1.012 6.77 0.46 -107.1 clear 13.53

1028 0.9 28.91 1.014 6.78 0.40 -107.9 clear 13.57

1438 @ GAS STATION TO BUY ICE & FUEL

Location PUERTO RICODate 12-7-12Project / Client CPCPRCDEZ SamplingMR/MA

Coolest  
1545 <sup>15<sup>th</sup></sup> Head to FedEx to D/O Coolest  
D/O Coolest @ FedEx (3) Friday)  
AIR Bill # 80426262032  
@ Hotel

12-7-12  
12-7-12

Location PUERTO RICODate 12-10-12Project / Client CPCPRCDEZ SamplingMR/MA

~~0525, M. Camp & M. Rivera leave hotel  
for site~~

0540 @ Gas station to get gas

0630 @ Gas station to get ice

0640 Sign in @ Guard shack & get  
keys.

0645 Loading &amp; Calibrate equipment

AM WEATHER 74° Mostly cloudy

WINDS E @ 8 mph

DATA TAKE Slip trip fall unseen

surfaces, pinch point, team hat,

item, spray hood, Bulbene

HARAR 12-10-12PDA SEE NEXT

MW 1160, MW 130, MW 1330, MW 7P

LD (P) (USMB CA)

YSICAL pH4 = 4.00 @ 21.36

pH7 = 7.04 @ 21.51, pH10 = 10.02 @ 21.14

SPEC COND = 1.413 @ 21.53, ORP = 220.0 @ 21.54

DO = 9.00 mg/L @ 20.68

0715 SETTING UP @ MW-7R JTW = 6.01

TIME WIL TEMP COND pH DO ORP L/S W/L

0726 6 27.93 7.48 7.10 12.0-121.2 clear 6.04

0729 6 26.75 7.48 7.12 12.5-121.6 clear 4.05

Location PUEBLO RICO Date 12-10-11Project / Client CPC/RECDEC SAMPLINGW/H

TIME	Vol	TEMP	COND	PH	DO	ORP	VIS	W/L
0732	1.2	28.71	747	7.0	20.7	-130.0	clear	6.06
0735	1.8	28.23	751	7.14	10.4	-134.4	clear	6.07
0738	2.4	29.07	752	7.13	8.2	-135.8	clear	6.07
0741	3.0	29.14	754	7.11	0.49	-135.8	clear	6.07
0749	3.6	29.21	757	7.10	0.46	-138.4	clear	6.07
0742	4.2	29.24	762	7.09	0.40	-137.7	clear	6.07
0750	4.8	29.25	764	7.08	0.40	-138.2	clear	6.07
0753	5.4	29.33	768	7.07	0.37	-138.6	clear	6.07
0755	COLLECTING VIBR SAMPLER @ MW-712 (DUP)							
0815	COLLECTING CASING @ MW-712 (DUP)							
FERRUS 12" @ 3.0" DTW 11-02								
0916	@ MW-143 DTW 11-02							
0921	SETTING UP @ MW-160, DTW = 9.43							
TIME Vol TEMP COND PH DO ORP VIS W/L								
0935	0	28.97	29.83	7.03	1.26	-55.1	clear	9.99
0938	0.3	29.02	29.99	7.04	0.54	-100.5	clear	10.09
0941	1.5	29.04	29.81	7.04	0.46	-110.0	clear	10.19
0944	2.5	29.06	28.86	7.06	0.42	-114.2	clear	10.29
0947	3.0	29.07	28.21	7.07	0.39	-115.6	clear	10.32
0950	3.75	29.06	27.71	7.08	0.36	-117.3	clear	10.35
0953	4.5	29.06	27.37	7.08	0.35	-112.2	clear	10.38
0956	5.25	29.06	27.10	7.09	0.32	-107.8	clear	10.42
10:00 Collecting Sample @ MW-160, SETTING UP BOR								

(CONT)

(CONT)

The manufacturers of "Rite in the Rain" all-weather writing products are grateful to the numerous environmental experts who have contributed to the development of this book. Should you have any additions, improvements or corrections for future publications of this field book or have suggestions for other environmental field book formats, we welcome your input.

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### Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake.

Commonly used error codes include:

- RE Recording Error
- CE Calculation Error
- TE Transcription Error
- SE Spelling Error
- CL Changed for Clarity
- DC Original Sample Description
- Changed After Further Evaluation
- WO Write Over
- NI Not Initialed and Dated at Time of Entry
- OB Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

### Hazard Classifications

- Class 1 Explosives
- Class 2 Gas
- Class 3 Flammable Liquid
- Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
- Class 5 Oxidizing Substances and Organic Peroxides
- Class 6 Toxic (poisonous) and infectious substances
- Class 7 Radioactive material
- Class 8 Corrosives
- Class 9 Miscellaneous dangerous goods

### Container type abbreviations (for sampling guidelines)

- BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug • AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle • CWM - Clear Wide Mouth

## CONTENTS

Location PUSATO RICO Date 12-10-12 <sup>3</sup>

Project / Client: CPCPRC  
DA Sampling WZ/MB

~~1030 setting up @ MW-1610, DTM-689~~

TIME	VOL	TEMP	SUN	PH	DO	ORP	VIS	WL
1044	0	28.65	1.917	8.03	1.49	-37.4	clear	6.33
1047	0.6	28.68	1.975	8.00	0.84	-34.4	clear	6.34
1050	1.2	28.63	1.9413	7.99	0.60	-32.5	clear	6.34
1053	1.8	28.62	1.938	7.99	0.53	-35.2	clear	6.34
1056	2.4	28.56	1.931	7.98	0.47	-35.4	clear	6.34
1059	3.0	28.60	1.925	7.98	0.43	-35.8	clear	6.34

1105 COLLECTING SAMPLE @ MW-16(D)

125 SETTING -  $p \approx m \approx 130$ ,  $d_{TW} = 7.17$  no. hcr

TIME	Vol	TEMP	Conc'd	PA	pH	ORP	VIS	wc
1137	0	28.58	3.830	7.10	0.12	12.6	clear	7.33
1140	0.6	28.44	3.813	7.10	0.16	16.9	clear	7.33
1143	1.2	28.42	3.805	7.10	0.63	13.9	clear	7.34
1146	1.8	28.46	3.841	7.17	0.46	11.4	clear	7.34
1149	2.4	28.43	3.844	7.16	0.40	10.2	clear	7.34
1152	3.0	28.39	3.842	7.17	0.37	7.4	clear	7.34

155 ~~collectible sample @ m. 130, N. 002~~

1220 SETTING UP @ MW-133D, DTW = 2.58

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1232	0	27.98	1.685	7.08	1.54	1.7	clear	2.60
1235	0.45	28.01	1.684	7.01	0.89	0.6	clear	2.60
1238	0.90	27.96	1.683	6.99	0.90	0.5	clear	2.60
1241	1.35	27.79	1.681	6.99	0.59	1.4	clear	2.60

Location PUERTO RICO Date 12-10-12  
 Project / Client CPCPRC  
DEC Sampling MR/MR

0535 M. PAMPY S.M. RIVERA LEAVE HOTEL FOR SITE  
 0540 @ GAS STATION TO GET GAS  
 0630 @ GAS STATION TO GET ICE  
 0640 SIGWIN @ GUARD SHACK & GET KEYS  
 0645 LOADING & CALIBRATING EQUIPMENT

AM WEATHER: 75° Mostly Cloudy.

WINDS E @ 8 mph

Daily TAILGATE - Slip TRAP FALL, UNDEMAN  
 SOURCES, P.O. & PRINTS. TEAM LEFT  
 HEAT, SIM HYDRATED, BIOLOGICAL  
 HAZARDS, SW SCREEN.

POD - Sample wells MW-161D,  
 MW-160, MW-130, MW-133D  
 MW-7R (Dup) (VISM & CA SOURCES)

YSI CAL - pH 4.00 = 4.00 @ 21.36°C,  
 pH 7 = pH<sub>meas</sub> 7.00 @ 21.51, pH 10 = 10.02 @  
 21.14°C. Spec Cond = 1413 @ 21.53°C,  
 ORP = 220.0 @ 21.54°C, DO = 9.00 mg/L @ 20.68°C

0715 SETTING UP @ MW-7R (Dup) DTW = 6.01

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0726	0	27.97	0.748	7.10	20	-121.7	clear	6.04
0729	0.6	28.35	0.748	7.12	20.5	-121.6	clear	6.05
0732	1.2	28.71	0.749	7.13	20.7	-130.0	clear	6.06
0735	1.8	28.93	0.751	7.14	20.9	-134.4	clear	6.07

Location PUERTO RICO Date 12-10-12  
 Project / Client CPCPRC  
DEC Sampling MR/MR

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0738	2.4	29.07	0.752	7.13	8.2	-135.8	clear	6.07
0741	3.0	29.14	0.754	7.11	0.49	-135.8	clear	6.07
0744	3.6	29.21	0.757	7.40	0.46	-137.4	clear	6.07
0747	4.2	29.24	0.762	7.09	0.40	-137.4	clear	6.07
0750	4.8	29.25	0.764	7.08	0.40	-138.2	clear	6.07
0753	5.4	29.33	0.768	7.07	0.37	-138.6	clear	6.07

0755 Collecting VISM Sample & Dup @ MW-7R

0815 Collecting CA Sample & Dup @ MW-7R.

Slight odor; FERROUS IRON = 3.30 mg/L

0916 SETTING UP @ MW-160

0916 @ MW-143; DTW = 11.02

0921 SETTING UP @ MW-160; DTW = 9.13 NO CAP

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0935	0	28.97	29.83	7.03	1.26	-55.1	clear	9.99
0938	0.75	29.02	29.99	7.04	0.54	-100.5	clear	10.09
0941	1.5	29.04	29.81	7.04	0.46	-110.0	clear	10.19
0944	2.25	29.06	28.86	7.06	0.42	-114.2	clear	10.29
0947	3.0	29.07	28.21	7.07	0.39	-115.6	clear	10.32
0950	3.75	29.06	27.71	7.08	0.36	-117.3	clear	10.35
0953	4.5	29.06	27.37	7.08	0.35	-112.2	clear	10.38
0956	5.25	29.06	27.10	7.09	0.32	-107.8	clear	10.42

1000 Collecting sample @ MW-160, strong odor

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Location PUERTO RICODate 12-10-12Project / Client CPLPRCDEC SamplingMZ/MR

1030 SETTING UP @ MW-161D; DTW=6.09 NO LOCK OUTER CAP

TIME	Vol	TEMP	COND	pH	DO	ORP	VIS	WL
1044	0	28.65	2.01	8.03	1.49	-33.4	clear	6.33
1047	0.6	28.66	1.975	8.00	0.84	-34.4	clear	6.34
1050	1.2	28.65	1.948	7.99	0.60	-32.5	clear	6.34
1053	1.8	28.62	1.938	7.99	0.53	-35.2	clear	6.34
1056	2.4	28.58	1.931	7.98	0.47	-35.4	clear	6.34
1059	3.0	28.60	1.925	7.98	0.43	-35.8	clear	6.34

1105 COLLECTING SAMPLE @ MW-161D NO ODOOR

1125 SETTING UP @ MW-130; DTW=2.12 NO LOCK

TIME	Vol	TEMP	COND	pH	DO	ORP	VIS	WL
1137	0	28.58	3.830	7.20	0.94	20.3	clear	7.33
1140	0.6	28.44	3.843	7.16	0.76	16.4	clear	7.33
1143	1.2	28.42	3.843	7.16	0.63	13.9	clear	7.34
1146	1.8	28.46	3.841	7.17	0.46	11.4	clear	7.34
1149	2.4	28.43	3.844	7.16	0.40	10.2	clear	7.34
1152	3.0	28.39	3.847	7.17	0.37	7.4	clear	7.34

1155 COLLECTING SAMPLE @ MW-130 NO ODOOR

1220 SETTING UP @ MW-133D; DTW=2.58

TIME	Vol	TEMP	COND	pH	DO	ORP	VIS	WL
1232	0	27.98	1.685	7.08	1.54	1.7	clear	2.60
1235	0.45	28.01	1.684	7.01	0.89	0.6	clear	2.60
1238	0.9	27.96	1.683	6.99	0.90	0.5	clear	2.60
1241	1.35	27.99	1.681	6.99	0.59	1.4	clear	2.60

Location PUERTO RICODate 12-10-12Project / Client CPLPRCDEC SamplingMR/MR~~1220 SETTING UP @ MW-133D; DTW=2.58~~

TIME	Vol	TEMP	COND	pH	DO	ORP	VIS	WL
1244	1.80	27.96	1.679	6.98	0.62	2.4	clear	2.60
1247	2.25	27.98	1.676	6.97	0.90	2.7	clear	2.60
1250	2.70	27.97	1.675	6.97	0.70	3.3	clear	2.60
1253	3.15	27.97	1.674	6.97	0.51	3.0	clear	2.60
1256	3.60	27.96	1.671	6.96	0.49	4.2	clear	2.60
1259	4.05	27.95	1.670	6.96	0.49	4.2	clear	2.60

1305 COLLECTING SAMPLE @ MW-133D

1326 BEGIN WATER LEVELS

1327 @ MW-127; DTW=7.72

1333 @ MW-126; DTW= UNABLE TO UNLOCK

1337 @ MW-152; DTW=7.72

1340 @ MW-153; DTW=8.24

1342 @ MW-154; DTW=8.33 NO INNER CAP

1344 @ MW-19; DTW=5.93

1347 @ RW-E; DTW=7.39 HINGE BROKEN

1349 @ MW-3R; DTW=8.54

1400 DUMP PURGE WATER. FINISHED W/

FIELD ACTIVITIES

1410 @ OPS TRAILER, UNLOAD EQUIPMENT.

1425 SIGN OUT @ GUARD SHACK &amp; RETURN KEYS.

1435 @ GAS STATION TO BUY ICE &amp; PACK COOLERS.

Location PUERTO RICO Date 12-10-12  
 Project / Client CPCPRC  
DEL SAMPLING MR/MR

1530 HEAD TO FED EX TO D/O COOLERS.  
 D/O FOUR(4) COOLERS @ FED EX  
 1625 AIR BILL # 8014262654  
 1630 @ HOTEL PM WEATHER 88° SUN 1  
 NO WIND

*[Large scribble]*  
 12-10-12

Location PUERTO RICO Date 12-11-12  
 Project / Client CPCPRC  
DEL SAMPLING MR/MR

0535 M. PAMPY & M. RIVERA LEAVE HOTEL  
 FOR CPCPRC  
 0620 @ GAS STATION TO GET ICE  
 0630 SIGN IN @ GUARD STATION & GET KEYS  
 0635 CALIBRATE & LOAD EQUIPMENT  
AM WEATHER 77°, Mostly clear  
 WINDS N @ 14 mph  
 Daily TAILGATE SLIP TRIP FALL, UNEVEN  
 SURFACES, HEAT, STAIRS, DATED,  
 STANDING WATER, TEAM LIFT, SUNSCREEN  
 BIOLOGICAL HAZARDS  
PON Sample wells: MW-1289  
 MW-125(DUP), DMW-1(DUP) MW-460  
 IF possible, MW-16602 DMW-12-112  
YSICAL pH = 4.00 @ 20.88, pH = 7.00 @ 20.70  
 pH ID = 10.03 @ 20.62, SPEC COND = 1.413 @ 20.61  
 ORP = 220 @ 20.69, DO = 9.15 mg/L @ 19.78

0720 SETTING UP @ MW-460; DMW = 1.39 WONT LOCK  
 LOCK

	TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0734	0	26.25	0.743	6.77	2.04	16.0	cloudy	1.41	
0737	0.6	26.54	0.982	6.76	2.51	-35.9	cloudy	1.41	
0740	1.2	26.71	0.985	6.76	0.76	-41.5	cloudy	1.41	
0743	1.8	26.90	0.986	6.76	0.57	-45.2	cloudy	1.41	
0746	2.4	26.92	0.986	6.76	0.52	-47.6	cloudy	1.41	

Date 12.11.12

Project / Client: Lic ppc

DEC 5 AMO 1966

mkmb

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0749	3.0	26.91	0.985	6.76	0.49	-48.9	cloudy	1.41
0755	collecting sample @ MW-4160 Silverood							
0820	@ WELL MW-142; DTW = 3.96 <sup>lock</sup> <sub>write lock</sub>							
0825	SETTING UP @ Dmw-1 (dup) DTW = 4.94 <sup>add</sup> <sub>lock</sub>							
TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0837	0	26.54	0.810	6.82	1.60	14.0	cloudy	4.97
0840	0.6	27.10	0.816	6.80	0.76	-10.2	cloudy	4.97
0843	1.2	27.20	0.818	6.79	0.62	-23.5	clear	4.97
0846	1.8	27.18	0.821	6.78	0.52	-30.1	clear	4.97
0849	2.4	27.20	0.829	6.77	0.41	-41.6	clear	4.97
0852	3.0	27.27	0.818	6.77	0.46	-42.0	clear	4.97
0853	3.6	27.29	0.817	6.76	0.41	-46.2	clear	4.97
0900	collecting sample @ Dmw 2. STRAND ODR							
0940	SETTING UP @ MW-128-0, DTW = 7.27 <sup>NO</sup> <sub>lock</sub>							
TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0955	0	27.81	.620	6.88	1.28	88.4	clear	7.28
0958	0.6	27.87	.624	6.85	.76	69.0	clear	7.26
1001	1.2	28.17	.624	6.83	.56	60.6	clear	7.26
1004	1.8	28.31	.624	6.81	.48	55.6	clear	7.26
1007	2.4	28.61	.623	6.80	.38	52.8	clear	7.26
1010	3.0	28.75	.621	6.80	.33	48.5	clear	7.26
1013	3.6	28.81	.621	6.79	.31	45.2	clear	7.26
1015	collecting sample @ MW-1280 Silverood							

Location Puerto Rico

Date 12-17-12

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Project / Client: CRCPRC

DEC Sample

nr/nr

1035 SETTING UP @ MW-125; DTW= 2.28 NO LUCK

TIME	VOL	TEMP	CAND	pH	DO	ORP	VIS	WL
1046	Ø	28.21	0.748	7.20	1.19	52.0	clear	8.19
1049	0.6	28.23	0.754	7.19	0.55	49.0	clear	8.24
1052	1.2	28.24	0.756	7.19	0.49	45.1	clear	8.28
1055	1.8	28.23	0.757	7.19	0.41	26.8	clear	8.29
1058	2.4	28.26	0.757	7.18	0.38	15.3	clear	8.28
1101	3.0	28.26	0.758	7.19	0.34	5.6	clear	8.28
1105	COLLECTING SAMPLE @ MW-125; slight odor							
1200	SETTING UP @ MW-166; DTW = 5.65							
TIME	VOL	TEMP	CAND	pH	DO	ORP	VIS	WL
1226	Ø	30.12	37.91	7.12	.67	-152.0	clear	6.16
1229	0.6	30.28	37.92	7.17	0.29	-209.9	clear	6.16
1232	1.2	30.20	37.92	7.22	0.29	-245.9	clear	7.19
1235	1.8	30.21	37.95	7.24	0.15	-242.4	clear	7.70
1238	2.4	30.24	37.94	7.23	0.13	-237.2	clear	8.20
1241	3.0	30.21	37.77	7.23	0.13	-230.7	clear	8.59
1244	3.6	30.27	37.93	7.24	0.11	-241.9	clear	8.81
1250	COLLECTING SAMPLE @ MW-166 STRONG ODOR							
1325	DUMP PURBEMATER							
1330	Dt EQUIPMENT @ EPS TRAILER							
1350	TAKING QUICK INVENTORY OF COOLERS/BOXES							
1400	D/O KEYS & SIGN OUT @ GUARD SHACK. HEAD TO GET ICE & PACK							

PUERTO RICO

12-11-12

CPCPRC  
DEL SAMPLING

MRF/MR

1405 @ GAS STATION TO PACK COOLERS  
 1510 HEAD TO FED EX TO D/O COOLERS  
 1600 @ FED EX. TO D/O COOLERS (4).  
 AIRBILL# 8014 2626 2665  
 1635 @ HOTEL BM WEATHER 88° SUNNY  
 WINDS W @ 12 MPH

PUERTO RICO

12-12-12

CPCPRC

DEL SAMPLING

MRF/MR

0530 M. RAMP & M. RIVERA LEAVE HOTEL FOR  
 CPCPRC SITE.

0620 @ GAS STATION TO BUY ICE

0630 SIGN IN @ CUPON STATION & GET KEYS

0635 CALIBRATE & LOAD EQUIPMENT  
 AM WEATHER - 77° PARTLY CLOUDY.  
 WINDS S @ 11 MPH

DAILY TAILGATE - SLIP TRIP FILL, TANK  
 LIFT, HEAT, STAINITY DATES, PUNCH  
 POINTS. NOISE NV SENSE,

P.O.D - SAMPLE AES WELLS - MW-48,  
 MW-49, MW-50, MW-51, MW-52

YSI CAL - pH4 = 4.00 @ 20.70

pH7 = 7.00 @ 20.62; pH10 = 10.03 @ 20.61

SPEC COND = 1.413 @ 20.56; ORP = 210 @ 20.54

DO = 9.10 mg/L @ 20.08

0715 HEAD TO AES

0735 THROUGH SECURITY, GETTING

TRAINING FOR M. RIVERA & GETTING  
 WORK PERMIT.

0840 OBTAIN PERMIT & TRAINING

0845 SETTING UP @ MW-51; DTW = 10.24

TIME VOL TEMP COND pH DO ORP VIS WL

0900 0 29.56 1.377 6.80 1.75 804 clear 10.26

Location PUEBLO RICODate 12-12-12Project / Client CPCPRC

DEC Sampling

mw/mw

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
0903	0.6	29.92	1.377	6.81	1.11	64.8	clear	10.26
0906	1.2	30.04	1.352	6.80	.88	75.5	clear	10.26
0909	1.8	30.20	1.307	6.80	.53	60.8	clear	10.26
0912	2.4	30.28	1.262	6.80	.44	54.3	clear	10.26
0915	3.0	30.36	1.246	6.80	.38	49.5	clear	10.26
0918	3.3	30.40	1.240	6.79	.36	45.7	clear	10.26

0920 COLLECTING SAMPLE @ MW-51 NOODOR

0950 SETTING UP @ MW-50, DTW = 10.28

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1005	0	30.10	0.868	6.97	2.60	63.2	clear	10.57
1008	0.6	29.86	0.949	6.92	1.15	52.0	clear	10.55
1011	1.2	29.75	1.030	6.87	0.61	49.3	clear	10.55
1014	1.8	29.71	1.055	6.86	0.43	51.1	clear	10.55
1017	2.4	29.77	1.066	6.86	0.41	50.6	clear	10.55
1020	3.0	29.78	1.071	6.87	0.44	48.6	clear	10.55

1025 COLLECTING SAMPLE @ MW-50, NO ODOR

1110 SETTING UP @ ~~50~~ MW-48, DTW = 11.62

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1118	0	30.59	17.88	6.44	1.31	-104.2	clear	11.67
1121	.45	30.53	19.74	6.45	.56	-104.2	clear	11.67
1124	0.90	30.59	19.98	6.45	.42	-102.7	clear	11.67
1127	1.35	30.74	19.96	6.46	.37	-101.7	clear	11.67
1130	1.80	30.51	19.95	6.46	.32	-101.6	clear	11.67

1135 COLLECTING SAMPLE @ MW-48 NO ODOR

Location PUEBLO RICODate 12-12-12Project / Client CPCPRC

DEC Sampling

mw/mw

1205 SETTING UP @ MW-52, DTW = 11.08

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1216	0	31.37	4.922	6.57	2.10	-26.4	clear	11.19
1219	0.6	31.19	4.925	6.56	0.76	-21.1	clear	11.18
1222	1.2	31.23	4.943	6.57	0.56	-20.0	clear	11.18
1225	1.8	31.15	5.080	6.58	0.42	-22.0	clear	11.18
1228	2.4	31.16	5.092	6.58	0.37	-18.7	clear	11.18
1231	3.0	31.17	5.101	6.58	0.36	-18.3	clear	11.18

1235 COLLECTING SAMPLE @ MW-52, NO ODOR

1305 SETTING UP @ MW-49, DTW = 12.68

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS	WL
1320	0	31.79	8.220	6.59	1.25	-3.9	clear	13.70
1323	0.6	31.71	8.213	6.59	1.75	-46.1	clear	14.01
1326	1.2	31.84	8.217	6.60	.83	-4.1	clear	14.22
1329	1.8	31.80	8.264	6.60	.69	-12.2	clear	14.39
1332	2.4	31.78	8.294	6.61	.62	-22.7	clear	14.46
1335	3.0	31.94	8.288	6.61	.51	-27.5	clear	14.48
1338	3.6	31.94	8.301	6.61	.46	-29.1	clear	14.50
1341	4.2	31.73	8.350	6.62	.41	-34.4	clear	14.53

1345 COLLECTING SAMPLE @ MW-49 NO ODOR

1430 TURN IN / SIGN OUT PERMIT.

1440 SIGN OUT RETURN BADGES @ DES GUARD

1450 DUMP PUMP WATER.

1500 UNLOAD EQUIPMENT @ OPS TRUCK

Location Puerto RicoDate 12-12-12Project / Client † CPCPRCDEC Samplingmt/mr

1515 SIGN OUT @ BOARD SHARK ST.  
 RETURN KEYS. HEAD TO GAS  
 STATION TO BUY 100/PACK COOLERS

1555 HEAD TO FED EX TO DLO  
 COOLERS

1645 DLO (2) COOLERS @ FED EX.  
 AIRBILL # BD14 26262676.

1650 @ HOTEL

PM WEATHER - 86°, Mostly Sunny  
 WINDS W @ 10 mph

~~12-12-12~~

Location \_\_\_\_\_

Date \_\_\_\_\_

Project / Client \_\_\_\_\_

0535 M. RAMOS & MR. WOOD LEAVE HOTEL FOR  
 CPCPRC

0615 @ GAS STATION FOR ICE & GAS

SIGN IN @ BOARD SHARK ST. GET KEYS  
 LOADING & CALIBRATE EQUIPMENT  
AM WEATHER - 77° Cloudy, RAIN  
 NO WIND

PAVING TRAILGATE SLIP TRIP FALL, SLICK  
 SURFACES, UNEVEN, BOLD & KICK  
 HAZARDOUS TERRAIN, HEAT,  
 STAY HYDRATED

P.O.D - SAMPLE WELLS (LOW PRIORITY)  
 DMW-3, MW-450, MW-43 (MS/MOB)  
 MW-119, IF POSSIBLE, DMW-4

VISUAL pH = 4.00 @ 21.23

pH7 = 7.00 @ 21.34; pH10 = 10.03 @ 21.21

SPEC COND = 1418 @ 21.23; ORP = 220 @ 21.46

DO = 8.99 mg/L @ 21.67

0745 SETTING UP @ DMW-3; DTW = 3.22

TIME VOL TEMP COND pH DO ORP VIS WCL

0757	0	27.83	1416	6.86	3.67	06.5	clear	3.26
0800	0.6	28.28	1412	6.83	3.87	71.2	clear	3.24
0803	1.2	28.48	1417	6.81	2.40	64.0	clear	3.24
0806	1.8	28.60	1412	6.80	1.14	52.7	clear	3.14

Location PUEBLO RICODate 12-13-12Project / Client CPCPRCDECSamplingmc/mc

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
0809	2.4	28.75	.608	6.80	.83	49.7	clear	3.24
0812	3.0	28.66	.607	6.80	.70	43.7	clear	3.24
0815	3.6	28.54	.608	6.79	.60	42.0	clear	3.24
0818	4.2	28.63	.607	6.77	.52	40.1	clear	3.24
0821	4.8	28.82	.607	6.80	.40	38.8	clear	3.24
0824	5.4	28.81	.607	6.79	.42	38.2	clear	3.24
0830	COLLECTING SAMPLE @ DMW-3 NOODOR							

0855 SETTING UP @ MW-450; DTW = 4.73 NOODOR

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
0905	0	28.97	1.997	7.10	1.60	80.6	clear	4.76
0908	0.75	29.11	2.039	7.20	0.88	67.2	clear	4.76
0911	1.5	28.93	1.289	7.16	1.30	50.9	clear	4.76
0914	2.25	28.92	0.938	7.05	1.48	38.0	clear	4.76
0917	3.0	28.92	0.781	6.97	1.60	35.5	clear	4.76
0920	3.75	28.91	0.702	6.94	1.76	35.6	clear	4.76
0923	4.5	28.93	0.656	6.93	1.55	35.0	clear	4.76
0926	5.25	28.95	0.639	6.92	1.52	34.6	clear	4.76
0929	6.0	28.92	0.627	6.91	1.63	34.9	clear	4.76
0932	6.75	28.93	0.620	6.90	1.52	35.3	clear	4.76
0935	7.5	28.94	0.616	6.90	1.52	35.0	clear	4.76

0940 COLLECTING SAMPLE @ MW-450; NO ODOOR

1005 SETTING UP @ MW-413; DTW = 5.00

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1015	0	29.22	.663	7.04	1.52	-3.7	clear	5.24

Location PUEBLO RICODate 12-13-12Project / Client CPCPRCDEC SamplingMR/MR

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1018	0.6	29.11	.675	7.01	.90	-30.3	clear	5.26
1021	1.2	29.18	.676	7.01	.54	-39.1	clear	5.28
1024	1.8	29.31	.677	7.02	.41	-45.9	clear	5.28
1027	2.4	29.38	.676	7.02	.34	-47.0	clear	5.30
1030	3.0	29.39	.676	7.03	.32	-49.4	clear	5.30
1035	COLLECTING SAMPLE @ MS/MSD @ MW-43 NO ODOOR							

1110 SETTING UP @ MW-119; DTW = 5.04

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1119	0	29.07	0.651	7.18	1.59	-57.7	cloudy	5.35
1122	0.75	28.81	0.650	7.17	0.68	-76.6	cloudy	5.35
1125	1.5	28.65	0.650	7.17	0.43	-83.4	clearing	5.35
1128	2.25	28.67	0.649	7.17	0.35	-84.2	clearing	5.35
1131	3.0	28.55	0.649	7.18	0.31	-78.3	clear	5.35
1134	3.75	28.51	0.648	7.18	0.30	-73.1	clear	5.35

1140 COLLECTING SAMPLE @ MW-119; NO ODOOR

1205 SETTING UP @ DMW-4; DTW = 6.14

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1213	0	29.58	.688	7.35	1.70	14.2	clear	6.34
1216	0.6	29.33	.695	7.30	0.61	6.3	clear	6.34
1219	1.2	29.29	.691	7.29	.51	0.3	clear	6.34
1222	1.8	29.45	.680	7.27	.73	-3.7	clear	6.34
1225	2.4	29.60	.668	7.24	.65	-6.8	clear	6.34
1228	3.0	29.44	.658	7.21	.72	-8.7	clear	6.34

1230 COLLECTING SAMPLE @ DMW-4

20

Location PUERTO RICODate 12-13-12Project / Client CPCPRCDEC Sampling

MR/MR

1235 @ WELL MW-120; DTW = 5.21 LAKWORTH LK

LATE ENTRY: 0835 @ WELL MW-47; DTW 3.62

1325 DUMP PORBE WATER

1330 BOYS TRAVEL TO DLO EQUIPMENT &  
QUICK INVENTORY1355 SIGN OUT @ GRAND SHACK & RETURN KEYS;  
HEAD TO GAS STATION TO BUY ICE;

1400 @ GAS STATION TO PICK COOLERS

1500 HEAD TO FED EX TO DLO COOLERS

1550 @ FED EX TO DLO ~~STAINLESS~~ (3) COOLERS

AIRBILL# BHT# 801422262682

1645 @ HOTEL - PM WEATHER - 75°, cloudy,

RAIN WINDS W @ 15 mph

12-13-12

21

Location PUERTO RICODate 12-14-12Project / Client CPCPRCDEC Sampling

MR/MR

0535 M. RAMPY & M. RIVERA LEAVE HOTEL  
FOR CPCPRC.

0615 @ GAS STATION TO BUY ICE

0625 SIGN IN @ GRAND SHACK &amp; GET KEYS

0630 CALIBRATE &amp; LOG EQUIPMENT

AM WEATHER 77°, cloudy, NO WIND

DAILY TAILGATE - SLIP TRIP FALL, SLICKMUDDY, CONDITIONS, UNEVEN SLADOL, HEAT  
STAY IN DRATES, RIDGEBLACK HAZARDS.PDO - SAMPLE WELLS (COMPASTRE)

MW-42, MW-1230, MW-121, MW-40,

MW-1240 (INS/MSD)

YSICAL - pH = 4.00 @ 20.75; pH = 7.00 @ 27.76PHI = 10.03 @ 20.70; ~~CONSPEC~~ CON = 1.413 @ 22.70

ORP = 220 @ 20.65; DO = 9.10 mg/L @ 19.95

0725 SETTING UP @ MW-42; DTW = 5.58 <sup>HINKE</sup> BROKEN

TIME VIL TEMP WIND pH DO ORP VIS WL

0740 05 27.35 738 6.82 1.63 -12.4 cloudy 5.58

0743 45 27.84 757 6.71 1.00 -149.6 cloudy 5.58

0746 90 27.89 761 6.94 .33 -158.1 cloudy 5.58

0749 1.35 28.10 761 6.95 .21 -162.0 cloudy 5.58

0752 1.80 28.29 761 6.76 .20 -163.8 cloudy 5.58

0755 2.25 28.54 761 6.96 .17 -144.7 cloudy 5.58

0800 COLLECTING SAMPLE @ MW-42 WOODEN

22

Location Rosario RiverDate 12-14-12Project / Client CPCPRCDEC SamplingMR/MR

0822 SETTING UP @ MW-121; DTW = 7.02

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
0830	0	28.24	1.007	7.05	1.07	53.5	cloudy	7.23
0833	0.6	28.29	1.018	7.06	0.63	30.1	clearing	7.22
0836	1.2	28.18	1.021	7.06	0.64	23.0	clear	7.22
0839	1.8	28.23	1.024	7.06	0.45	19.4	clear	7.22
0842	2.4	28.27	1.026	7.05	0.37	15.8	clear	7.22
0845	3.0	28.31	1.026	7.05	0.36	14.0	clear	7.22

0855 Collecting Sample @ MW-121; No odor

0910 SETTING UP @ MW-123D; DTW = 8.14

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
0922	0	28.70	.555	6.87	2.58	24.4	clear	8.16
0925	0.6	28.65	.555	6.83	2.12	21.1	clear	8.16
0928	1.2	28.59	.555	6.83	1.93	23.5	clear	8.16
0931	1.8	28.58	.555	6.83	1.83	28.2	clear	8.16
0934	2.4	28.55	.554	6.82	1.83	30.0	clear	8.16

0940 COLLECTING SAMPLE @ MW-123D

1002 C WELL MW-122; DTW = 8.01

1005 SETTING UP @ MW-124D; DTW = 8.24

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1016	0	29.61	0.511	7.99	3.58	0.6	clear	8.33
1019	0.75	29.49	0.550	7.34	2.14	4.5	clear	8.35
1022	1.5	29.39	0.564	7.13	1.74	2.1	clear	8.35
1025	2.25	29.28	0.569	6.98	1.49	7.8	clear	8.35

23

Location PUERTO RICODate 12-14-12Project / Client CPCPRCDEC SamplingMR/MR

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1028	3.0	29.45	0.569	6.96	1.43	9.8	clear	8.35
1031	3.75	29.53	0.569	6.95	1.42	12.6	clear	8.35
1034	4.5	29.54	0.567	6.95	1.45	15.8	clear	8.35
1040	Collecting Sample @ MW-124D; No odor							
1130	SETTING UP @ MW-40; DTW = 9.55							

TIME	VOL	TEMP	COND	PH	DO	ORP	VIS	WL
1138	0	29.80	.546	7.10	2.30	-11.2	clear	9.58
1141	0.6	29.62	.538	7.08	1.72	-10.2	clear	9.58
1144	1.2	29.48	.538	7.08	1.57	-8.8	clear	9.58
1147	1.8	29.54	.538	7.08	1.58	-6.1	clear	9.58
1150	2.4	29.52	.537	7.07	1.47	-4.1	clear	9.58

1155 COLLECTING SAMPLE @ MW-40

1230 Dump PULLE WATER

1235 UNLOAD EQUIPMENT &amp; SAMPLES @ OPS TRAIL

1255 HEAD OFF SITE TO GET PACK &amp; SUPPLIES

1415 ON SITE. LOAD UP COOLERS

1430 SIGN OUT @ GUARD SHACK &amp; RETURN KEYS.

1438 @ GAS STATION TO BUY ICE &amp; PACK COOLERS.

NOTE: Will HEAD BACK TO SITE TO TAKE PICTURES OF VISN

Location PUEBLO RICODate 12-14-12Project / Client CPCPRCDEC Samplingmr/mr

LINE @ AS PER E. WHITMORE.

1515 COOLERS PACKED HEAD BACK  
TO SITE.

1520 TAKING PICS OF "VISM" SYSTEM FROM

1535 LEAVE SITE AEROTO FERRY W/ 16 COOLERS

1620 @ FERRY TO D10 (3) COOLERS

AIRBILL # 801426262698.

PM WEATHER - 82°, RAIN, WINDS SE @  
6 mph.

1635 @ HOTEL

PUEBLO RICO12-17-12

Project / Client

CPCPRCDEC Samplingmr/mr0935 M. RAMPY & M. RIVERA LEAVE HOTEL  
FOR CPCPRC.

0615 @ GAS STATION TO PURCHASE ICE GLASS

0630 SIGNING GUARD SHIRT &amp; GET KEYS.

0635 LABORERS ROAD EQUIPMENT

AM WEATHER - 78°, CLEAR, NEW MOON

DAILY JAILGATE - SIG TRIP FAIL, UNENJOY

SURFACES, HEAVY STAY HYDRATED,

SUNSCREEN, BOLDHEAD HAZARDOUS

POD - SAMPLE 12 WELLS - MW-41 (DOP)

DMW-2, MW-44 &amp; 5 WATER LEVELS

V31 CAL - pH1 = 4.0 @ 20.75; pH2 = 7.0 @ 20.75

pH10 = 10.03 @ 20.66; SPEC COND = 1413 @ 20.62

ORP = 22.0 @ 20.62; DO = 9.14 @ 17.81

0710 SETTING UP @ MW-41; DMW = 13.28

TIME VOL TEMP COND pH DO ORP VIS WL

0723 0 26.91 .604 6.81 1.99 83.5 clear 13.55

0726 0.6 27.41 .616 6.82 1.51 55.0 clear 13.61

0729 1.2 27.87 .622 6.80 1.16 50.5 clear 13.66

0732 1.8 28.19 .625 6.77 .60 46.5 clear 13.71

0735 2.4 28.74 .628 6.73 .44 51.1 clear 13.73

0738 3.0 28.30 .630 6.76 .41 47.3 clear 13.74

0741 3.6 28.35 .631 6.70 .36 46.7 clear 13.74

0745 COLLECTING SAMPLE @ MW-41 (DOP) NO ODOUR

Location Puerto RicoDate 12-17-12Project / Client CPCPRCDEQ SamplingMR/MR0825 SETTING UP @ DMW-2 DTW = 3.89 <sup>NO</sup> LOCK

TIME VOL TEMP COND pH DO ORP VIS WL

0837 0 28.6 1.014 6.74 1.99 66.1 cloudy 3.90

0840 0.6 28.68 1.056 6.74 1.02 20.2 clear 3.89

0843 1.2 28.64 1.074 6.72 0.67 58.6 clear 3.89

0846 1.8 28.64 1.076 6.73 0.47 62.9 clear 3.89

0849 2.4 28.65 1.078 6.73 0.40 64.5 clear 3.89

0852 3.0 28.62 1.080 6.73 0.36 65.2 clear 3.89

0855 3.6 28.63 1.082 6.73 0.35 65.9 clear 3.89

0900 Collecting Sample @ DMW-2; STRONG CLOUD

0925 SETTING UP @ MW-44; DTW = 3.90

TIME VOL TEMP COND pH DO ORP VIS WL

0940 0 29.36 .753 7.31 1.46 70.8 clear 4.85

0943 0.6 29.30 .758 7.30 .85 57.8 clear 5.15

0946 1.2 29.28 .757 7.30 .73 50.6 clear 5.60

0949 1.8 29.23 .757 7.31 .78 47.5 clear 5.95

0952 2.4 29.19 .754 7.30 .63 40.2 clear 6.30

0955 COLLECTING SAMPLE @ MW-44

1025 Dump portable water

1030 Unload equipment &amp; samples @ ops TRAILER.

1035 BEGIN WATER LEVELS

1035 @ MW-156; DTW = 8.00 N. INNER CAP

1036 @ MW-157 LOCK WOULD NOT OPEN

1037 @ MW-155 DTW = 10.13

Location Puerto RicoDate 12-17-12Project / Client CPCPRCDEQ SamplingMR/MR

1040 @ MW-139; DTW = 7.87

1045 @ NEW WELL E; DTW = 10.95

1049 @ MW-103; DTW = 16.64 NO LOCK

1052 @ MW-141; DTW = 15.52 NO LOCK

1103 @ MW-101; DTW = 19.19 NO LOCK

1104 @ MW-102; DTW = 15.57 NO LOCK

1108 @ MW-114; DTW = 22.81

1115 @ MW-109; DTW = DRY

1120 @ MW-108; DTW = 20.11

1140 @ MW-113; DTW = DRY

1145 @ MW-112; DTW = UNABLE TO COLLECT WATER  
LEVEL DUE TO ANTS

1152 @ MW-136D; DTW = 18.30

1155 @ MW-135; DTW = 17.94 NO INNER CAP

1200 @ MW-13R; DTW = 21.55

1202 @ MW-118D; DTW = 22.00

1207 @ MW-116; DTW = 10.64

1211 @ MW-117D; DTW = 8.02 NO LOCK

1212 @ RW-D; DTW = 7.05 LOCK WONT LOCK

1216 @ RW-J; DTW = 11.68

1220 @ MW-23; DTW = 12.19

1223 @ MW-29; DTW = 15.40

1229 @ RW-K; DTW = 10.93

1231 @ MW-9R; DTW = 6.82

Location PUERTO RICO Date 12-17-12  
 Project / Client CPCPRC  
DEL SAMPLING MR/MR

1235 FINISH W/ WATER LEVELS, WITH A FEW EXCEPT  
 NOT TALKING/CHURNING ABOUT COCK UNABLE TO  
 OPEN.

1240 @ VISIT, TAKING PICS. ESPEC. E. W/ HATCHES

1300 @ OPS TRAILER LOADING SAMPLES & DOING  
 INVENTORY ON WHAT WILL STAY & WHAT NEEDS  
 TO BE SHIPPED BACK TO COLUMBIA FOR EVALUATION  
 MAKEOUT OF OPS BUILDING

1400 SIGN OUT @ GUARD SHACK & RETURN KEYS.

1410 @ GAS STATION TO BUY ICE & PACK COOKIES.

1505 HEAD TO FED EX TO D/O COOKIES.

1555 @ FED EX TO D/O COOKIES (2) AIR BILL #

801426262702

PMW 86°, Sunny, Wind E @  
 7 mph

1630 @ HOTEL

*[Handwritten signature]*  
 12-17-12

Location PUERTO RICO Date 12-18-12  
 Project / Client CPCPRC  
DEL SAMPLING MR/MR

0530 M. PAMPY & M. RIVERA LEAVE HOTEL  
 FOR CPCPRC.

0615 @ GAS STATION TO BUY ICE.

0625 SIGN IN @ GUARD SHACK & GET KEYS

0630 CALIBRATE & LOAD EQUIPMENT

AM WEATHER - 78°, Clear Wind S @  
 7 mph.

DAILY TASKS - Slip Trip Fall, UNEVEN  
 SURFACES, BIOBIOLOGICAL HAZARDS,  
 HEAT, STAY HYDRATED, SUNSCREEN

P.O.D. - SAMPLE DITCH/CHANNEL.

YSI CAL - pH = 4.00 @ 20.73

pH = 7.00 @ 20.67; pH = 10.03 @ 20.60

SPEC COND = 1413 @ 20.55; ORP = 226 @ 20.64

DO = 9.14 mg/L @ 19.79

0810 SETTING UP @ DITCH-3

TIME	VOL	TEMP	COND	pH	DO	ORP	VIS
0818	25.24	54.1	720	2.98	87.8	clear	
0818	COLLECTING SAMPLE @ DITCH-3 MS/MSD						
0840	COLLECTING SEDIMENT SAMPLE 3/MS/MSD						
@ CHANNEL-3							
0915	SETTING UP @ DITCH-2						
1006	27.90	54.2	8.12	7.20	80.6	clear	
1010	COLLECTING SAMPLE @ DITCH-2						

Location Puerto RicoDate 12-18-12Project / Client CPCRCmr/mrDEL SAMPLING

1040 COLLECTING SEDIMENT SAMPLE &amp; DUP @ CHANNEL 2

1120 SETTING UP @ DITCH - 1

TIME	DOL	TEMP	COND	pH	DO	ORP	VIS
1140	Ø	27.05	1.146	7.50	1.86	-128.3	clear

1145 COLLECTING SAMPLE @ DITCH - 1

1210 COLLECTING SAMPLE @ CHANNEL - 1

1245 @ ops trailer. doing inventory.

1320 BEGIN WATER LEVELS

1350 @ MW-126; DTW = 6.61

1355 @ MW-157; DTW = 8.51

1358 @ MW-15; DTW = 10.96

1405 FINISH W/ WATER LEVELS &amp; SAMPLING FOR

THIS QUARTER. FINISHED W/ FIELD

ACTIVITIES. LOADING EQUIPMENT IN TRUCK.

1415 SIGN OUT @ BURRO SPACK &amp; RETURN KEYS.

1420 @ GAS STATION TO BUY ICE &amp; PACK COOLERS.

1515 LEAVE GAS STATION - ONE MORE  
WATER LEVEL NEEDED BEFORE  
HEADING TO FED EX.

1530 UNABLE TO LOCATE MW-10. (REW (CHECKED))

WILL CUT OVER GROUND &amp; WILL GET H2O LEVEL

VIA 6 CH2MHILLS H2O LEVEL METER. HEAD

TO FED EX TO DO SAMPLES.

1610 @ FED EX DO COOLERS (3)

Location Puerto RicoDate 12-18-12Project / Client CPCRCmr/mrDEL SAMPLINGFED EX AIR BILL # 801426262210  
1705 @ HOTEL.PM WEATHER 86° Mostly  
Cloudy w/ 3 mph

12-18-12

